

Title (en)
HIGH-STRENGTH NON-ORIENTED ELECTRICAL STEEL SHEET

Title (de)
HOCHFESTES NICHTORIENTIERTES ELEKTROSTAHLBLECH

Title (fr)
TÔLE D'ACIER MAGNÉTIQUE NON ORIENTÉE À HAUTE RÉSISTANCE

Publication
EP 2698441 B1 20201104 (EN)

Application
EP 12771871 A 20120411

Priority

- JP 2011089529 A 20110413
- JP 2012059886 W 20120411

Abstract (en)
[origin: EP2698441A1] A high-strength non-oriented electrical steel sheet contains: in mass%, C: 0.010% or less; Si: not less than 2.0% nor more than 4.0%; Mn: not less than 0.05% nor more than 0.50%; Al: not less than 0.2% nor more than 3.0%; N: 0.005% or less; S: not less than 0.005% nor more than 0.030%; and Cu: not less than 0.5% nor more than 3.0%, a balance being composed of Fe and inevitable impurities. An expression (1) is established where a Mn content is represented as [Mn] and a S content is represented as [S], and not less than 1.0×10^4 pieces nor more than 1.0×10^6 pieces of sulfide having a circle-equivalent diameter of not less than 0.1 μm nor more than 1.0 μm are contained per 1 mm².

IPC 8 full level
H01F 1/16 (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/16** (2006.01); **H01F 1/01** (2006.01); **C21D 8/12** (2006.01)

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